



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: IIJIMA, et al.

Serial No.: 09/466,895 ✓

Filed: December 20, 1999

Examiner: Rick Kiltae Chang

P.T.O. Confirmation No.: 1709

For: **A METHOD FOR FABRICATING A WIRING SUBSTRATE
BY ELECTROPLATING A WIRING FILM ON A METAL BASE**

RESPONSE UNDER 37 CFR §1.111

RECEIVED

MAY 02 2003

TECHNOLOGY CENTER R3700

Commissioner for Patents
Washington, D.C. 20231

April 29, 2003

Sir:

In response to the Office Action dated **January 29, 2003**, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please delete the previous abstract and replace it with the following abstract:

The present invention relates to a method for fabricating a wiring substrate by forming an insulating film on a metal base having openings on the metal base at positions corresponding to metal bumps to be formed later; forming at least one layer of wiring on the base made of a metal through the insulating film, the layer of wiring having a wiring film formed thereon by electroplating; and selectively etching the base. The insulating film can be a liquid photosensitive polyamide, the wiring layer can be copper and the wiring film can be a conductive layer selected from the group consisting of Ni-P and Ni. In the present invention, the wiring layer can be formed

BEST AVAILABLE COPY

Q1A
APR 29 2003
PATENT & TRADEMARK OFFICE
#10/RCE
RCE
APR 29 2003
PATENT & TRADEMARK OFFICE

REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

Subsection (b) of 35 U.S.C. § 132, effective on May 29, 2000, provides for the continued examination of a utility patent application filed on or after June 8, 1995.

Application Number	09/466,895 ✓ 3100
Filing Date	December 20, 1999
First Named Inventor	IJIMA, et al.
Group Art Unit	3729
Name of Examiner	Rick Kiltae Chang
Attorney Docket No.	991450

This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application.
Note: 37 C.F.R. § 1.114 is effective on May 29, 2000. If the above-identified application was filed prior to May 29, 2000, applicant may wish to consider filing a continued prosecution application (CPA) under 37 C.F.R. § 1.53 (PTO/SB/29) instead of a RCE to be eligible for the patent term adjustment provisions of the AIPA. See changes to Application Examination and Provisional Application Practice, Interim Rule, 65 Fed. Reg. 14865 (Mar 20, 2000) 1233 Off. Gazette Pat

RECEIVED
MAY 02 2003
TECHNOLOGY CENTER R3700

1. Submission Required Under 37 C.F.R. § 1.114

- a. ☐ Previously submitted
- i. ☐ Consider the amendment(s)/reply under 37 C.F.R. § 1.116 previously filed on _____
(Any unentered amendment(s) referred to above will be entered)
- ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- iii. ☐ Other _____
- b. ☐ Enclosed
- i. ☐ Amendment/Reply
- ii. ☐ Affidavit(s)/Declaration(s)
- iii. ☐ Information Disclosure Statement (IDS)
- iv. ☒ Other Preliminary Amendment

2. Miscellaneous

- a. ☐ Suspension of Action on the above-identified application is requested under 37 C.F.R. § 1.103(c) for a period of _____ months (period shall not exceed three months; Fee under 37 C.F.R. § 1.17(i) required)
- b. ☐ Other _____

3. Fees The RCE fee under 37 C.F.R. § 1.17(e) is required by 37 C.F.R. § 1.114 when the RCE is filed.

- a. ☐ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 01-2340
- i. ☐ RCE fee required under 37 C.F.R. § 1.17 (e)
- ii. ☐ Extension of Time Fee (37 C.F.R. §§ 1.136 and 1.17)
- iii. ☐ Other _____
- b. ☒ Check in the amount of \$750.00 is enclosed.

REQUEST F
CONTINUED EXAMINATION (RCE)
TRANSMITTAL

Subsection (b) of 35 U.S.C. § 132, effective on May 29, 2000, provides for the continued examination of a utility or plant application filed on or after June 8, 1995.

PAGE 2



23850

PATENT TRADEMARK OFFICE

Atty Docket No.

991450

SIGNATURE BY APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name James E. Armstrong IV

Registration No. 42,266 (atty/agent)

Signature

Date April 29, 2003

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, BOX RCE, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on:

Name

Signature

BEST AVAILABLE COPY